

ABSTRACT

A FIBRE REINFORCED METAL ROTOR

5 A fibre reinforced metal compressor disc (42) comprises a hub
(44), a rim (46) and a diaphragm (48) extending radially
between the hub (44) and the rim (46). The fibre reinforced
metal compressor disc (40) comprises a first ring of ceramic
fibres (52) and a second ring of ceramic fibres (56). The
10 first ring of fibres (52) is arranged in the hub (44) and the
second ring of fibres (56) is arranged in the rim (46) of the
disc (42). The rim (46) of the disc (42) carries a plurality
of blades (50). This arrangement of the rings of fibres
(52,56) minimises the weight of the disc, especially for
15 large radius discs suitable for carrying large blades and
operating at high rotational speeds.

(Figure 3)